

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
44375/4:10APPLICATION NO.
10/092,661INFORMATION DISCLOSURE CITATION
(Uses several sheets if necessary)APPLICANT
Dan A PRESTONFILING DATE
March 6, 2002GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
IM	AL	EP 0 242 099 A2	10/21/87	EPO				
IM	AM	EP 512 789 A2	11/11/92	EPO				
IM	AN	EP 0 528 090 A1	2/24/93	EPO				
IM	AO	EP 0 545 783 A1	6/9/93	EPO			X	
IM	AP	DE 4424412	1/18/96	Germany			X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

IM	AQ	International Search Report, PCT/US00/13288, 11/17/2000						
IM	AR	International Search Report, PCT/US01/20221, 8/21/2001						
IM	AS	Coleman et al., "Subjective Performance Evaluation of the RPE-LTP Codec for the Pan-European Cellular Digital Mobile Radio System," <i>IEEE</i> , 1989, pp. 758-761. (Best available copy)						

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	BA						
	BB						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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IM	BL	WO89/12835	12/28/89	PCT				
IM	BM	WO95/21511	8/10/95	PCT				
IM	BN	WO96/15636	5/23/96	PCT				
IM	BO	WO96/18275	6/13/96	PCT				
IM	BP	WO98/53573	11/26/98	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

IM	BQ	Lin et al., "Data Compression of Voiceband Modem Signals," <i>IEEE</i> , 1990, pp. 323-325. (Best available copy)						
IM	BR	Mueller et al. "A DSP Implemented Dual 9600/7200 bps TCM Modem for Mobile Communications Over FM Voice Radios," <i>IEEE</i> , 1997, pp. 758-761. (Best available copy)						
	BS							

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FOREIGN PATENT DOCUMENTS

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IM	CL	WO98/59257	12/30/98	PCT				
IM	CM	WO99/36795	7/22/99	PCT				
IM	CN	WO99/49677	9/30/99	PCT				
IM	CO	WO99/56143	11/4/99	PCT				
IM	CP	WO99/56144	11/4/99	PCT				
IM	CQ	WO00/11893	3/2/00	PCT				

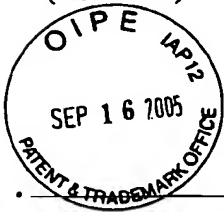
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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44735/4:10APPLICATION NO.
10/092,461INFORMATION DISCLOSURE CITATION
(Uses several sheets if necessary)APPLICANTS
Dan A. PRESTON et al.FILING DATE
March 6, 2002GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
IM	AA	5,218,618	6/8/1993	Sagey			
IM	AB	5,918,180	6/29/1999	Dimino			
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FOREIGN PATENT DOCUMENTS

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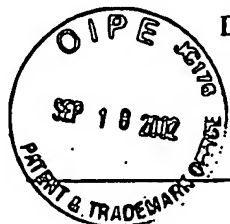
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(Uses several sheets if necessary)APPLICANTS: Dan A. Preston, *et al.*FILING DATE:
March 6, 2002GROUP:
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
IM	AL	0 545 783 A1	9.6.93	European Patent Office	H04L	27/32	✓	
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	AN							
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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APPLICANTS: Dan A. Preston et al.

FILING DATE
March 6, 2002GROUP
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INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
IM	AA	5 0 4 3 7 3 6	8/1991	Darnell et al.	342	357	
IM	AB	5 2 0 1 0 7 1	4/1993	Webb	455	101	
IM	AC	5 2 3 5 6 3 3	8/1993	Dennison et al.	379	60	
IM	AD	5 3 6 5 4 5 0	11/1994	Schuchman et al.	364	449	
IM	AE	5 3 8 8 1 4 7	2/1995	Grimes	379	59	
IM	AF	5 4 2 2 8 1 6	6/1995	Sprague et al.	364	449	
IM	AG	5 4 7 9 4 8 0	12/1995	Scott			
IM	AH	5 4 8 3 5 4 9	1/1996	Weinberg et al.	375	200	
IM	AI	5 5 1 9 4 0 3	5/1996	Bickley et al.	342	352	
IM	AJ	5 5 3 9 8 1 0	7/1996	Kennedy, III et al.	379	59	
IM	AK	5 5 4 6 4 4 5	8/1996	Dennison et al.	379	60	

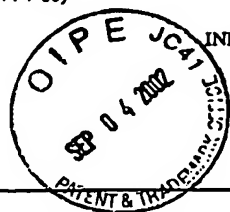
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	WO 89/12835	12/1989	WIPO	G01S	5/02		
	AM	0512789A2	5/1992	European Patent Office	G01S	5/14		
	AN	0545783	9.6.93	European Patent Office	H04L	27/32		
	AO	WO 96/18275	6/1996	WIPO	H04Q	7/32		
	AP	WO 98/53573	11/1998	WIPO	H04L			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AR	PCT International Search Report dated 27.11.00 for International Application No. PCT/US00/13288.
AS	Mueller, A.J., et al., "A DSP Implemented Dual 9600/7200 BPS TCM Modem for Mobile Communications Over FM Voice Radios," Proceedings of the 1997 6 th IEEE Pacific Rim Conference on Communications, Computers and Signal Processing, Vol. 2, 20-22, August 1997, pages 758-761, IEEE, New York, New York.
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
IM	AA	5 5 5 5 2 8 6	9/1996	Tendler	379	59	
IM	AB	5 5 7 2 2 0 4	11/1996	Timm et al.	340	988	
IM	AC	5 5 8 7 7 1 5	12/1996	Lewis	342	357	
IM	AD	5 6 3 0 2 0 6	5/1997	Urban et al.	455	54.1	
IM	AE	5 6 8 6 9 1 0	11/1997	Timm et al.	340	988	
IM	AF	5 6 8 7 2 1 5	11/1997	Timm et al.	379	58	
IM	AG	5 7 1 2 8 9 9	1/1998	Pace, II	379	58	
IM	AH	5 7 2 6 8 9 3	3/1998	Schuchman et al.	364	449.7	
IM	AI	5 7 2 6 9 8 4	3/1998	Kubler et al.	370	349	
IM	AJ	5 7 8 6 7 8 9	7/1998	Janky			
IM	AK	5 8 1 2 0 8 7	9/1998	Krasner	342	357	

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	WO 99/49677	30.9.99	WIPO	H04Q	7/22		
	AM	WO 00/11893	2.3.00	WIPO	H04Q	7/00		
	AN							
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AR	Coleman, A., et al., "Subjective Performance Evaluation of the RPE-LTP Coded for the Pan-European Cellular Digital Mobile Radio System," Globecom '89, IEEE Global Telecommunications Conference and Exhibition, Vol. 2, 27-30, November 1989, pages 1075-1079, IEEE, New York, New York.
AS	Lin, D., et al., "Data Compression of Voiceband Modem Signals," 40th IEEE Vehicular Technology Conference: One the Move in the 90's, 6-9 May 1990, pages 323-325, IEEE, New York, New York.
AT	PCT-International Search Report dated 3 January 2002 for International Application No. PCT/US01/20021.

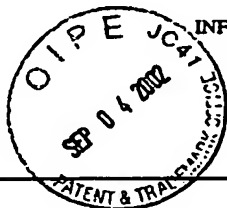
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IM	AA	5 9 4 5 9 4 4	8/1999	Krasner	342	357.06	
IM	AB	5 9 4 6 6 1 1	8/1999	Dennison et al.	455	404	
IM	AC	6 0 0 2 3 6 3	12/1999	Krasner	342	357.1	
IM	AD	6 0 2 1 1 6 3	2/2000	Hoshi	375	272	
IM	AE	6 1 4 0 9 5 6	10/2000	Hillman et al.	342	357.07	
IM	AF	6 2 2 6 5 2 9	5/2001	Bruno et al.	455	557	
IM	AG	R E 3 5 9 1 6	10/1998	Dennison et al.	455	456	
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